IAP20 Roc'E PCT/PTO 0 6 JAN 2006

1/65

SEQUENCE LISTING

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			5,550												
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	> Pl	RT JS SI	,												
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Phe	Gln	Ala	Glu	Ile	Ala	Gln	Leu	Met	Ser	Len	Tle	Tle	Δen	Thr	Dhe
			20					25					30		
Tyr	Ser	Asn	Lys	Glu	Ile	Phe	Leu	Arg	Glu	Leu	Ile	Ser	Asn	Ala	Ser
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Asp	Ala 50	Leu	Asp	Lys	Ile		Tyr	Glu	Ser	Leu		Asp	Pro	Ser	Lys
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Leu 65	Asp	Ser	Gly	Lys	Glu 70	Leu	Lys	Ile	Asp	Ile 75	Ile	Pro	Asn	Pro	Gln 80
Glu	Ara	Thr	Leu	Thr	Len	Va 1	Agn	Thr	Gly	Tla	Clv	Mot	Th m	Lys	7 J -
				85	Dou	val	пор	****	90	116	GIY	Mec	1111	95 95	ATG
Asp	Leu	Ile	Asn	Asn	Leu	Gly	Thr	Ile	Ala	Lys	Ser	Gly	Thr	Lys	Ala
			100					105					110		
Phe	Met	Glu 115	Ala	Leu	Gln	Ala	Gly	Ala	Asp	Ile	Ser		Ile	Gly	Gln
		113					120					125			
Phe	Gly 130	Val	Gly	Phe	Tyr	Ser	Ala	Tyr	Leu	Val		Glu	Lys	Val	Val
						135					140				
Val 145	Ile	Thr	Lys	His	Asn 150	Asp	Asp	Glu	Gln		Ala	Trp	Glu	Ser	
										155					160
Ala	Gly	Gly	Ser	Phe 165	Thr	Val	Arg	Ala	Asp 170	His	Gly	Glu	Pro	Ile 175	Gly

Arg	Gly	Thr	Lys 180	Val	Ile	Leu	His	Leu 185	Lys	Glu	Asp	Gln	Thr 190	Glu	Tyr
Leu	Glu	Glu 195	Arg	Arg	Val	Lys	Glu 200	Val	Val	Lys	Lys	His 205	Ser	Gln	Phe
Ile	Gly 210		Pro	Ile	Thr	Leu 215	Tyr	Leu	Glu	Lys	Glu 220	Arg	Glu	Lys	Glu
Ile 225	Ser	Asp	Asp	Glu	Ala 230	Glu	Glu	Glu	Lys	Gly 235	Glu	Lys	Glu	Glu	Glu 240
Asp	Lys	Asp	Asp	Glu 245	Glu	Lys	Pro	Lys	Ile 250	Glu	Asp	Val	Gly	Ser 255	Asp
Glu	Glu	Asp	Asp 260	Ser	Gly	Lys	Asp	Lys 265	Lys	Lys	Lys	Thr	Lys 270	Lys	Ile
Lys	Glu	Lys 275	Tyr	Ile	Asp	Gln	Glu 280	Ğlu	Leu	Asn	Lys	Thr 285	Lys	Pro	Ile
Trp	Thr 290	Arg	Asn	Pro	Asp	Asp 295	Ile	Thr	Gln	Glu	Glu 300	Tyr	Gly	Glu	Phe
Tyr 305	Lys	Ser	Leu	Thr	Asn 310	Asp	Trp	Glu	Asp	His 315	Leu	Ala	Val	Lys	His 320
Phe	Ser	Val	Glu	Gly 325	Gln	Leu	Glu	Phe	Arg 330	Ala	Leu	Leu	Phe	Ile 335	Pro
Arg	Arg	Ala	Pro 340	Phe	Asp	Leu	Phe	Glu 345	Asn	Lys	Lys	Lys	Lys 350	Asn	Asn
Ile	Lys	Leu 355	Tyr	Val	Arg	Arg	Val 360	Phe	Ile	Met	Asp	Ser 365	Cys	Asp	Glu
Leu	Ile 370	Pro	Glu	Tyr	Leu	Asn 375	Phe	Ile	Arg	Gly	Val 380	Val	Asp	Ser	Glu
Asp 385	Leu	Pro	Leu	Asn	Ile 390	Ser	Arg	Glu	Met	Leu 395	Gln	Gln	Ser	Lys	Ile 400
Leu	Lys	Val	Ile	Arg 405	Lys	Asn	Ile	Val	Lys 410	Lys	Cys	Leu	Glu	Leu 415	Phe
Ser	Glu	Leu	Ala 420	Glu	Asp	Lys	Glu	Asn 425	Tyr	Lys	Lys	Phe	Tyr 430	Glu	Ala
Phe	Ser	Lys 435	Asn	Leu	Lys	Leu	Gly 440	Ile	His	Glu	Asp	Ser 445	Thr	Asn	Arg
Arg	Arg 450	Leu	Ser	Glu	Leu	Leu 455	Arg	Tyr	His	Thr	Ser 460	Gln	Ser	Gly	Asp
Glu 465	Met	Thr	Ser	Leu	Ser 470	Glu	Tyr	Val	Ser	Arg 475	Met	Lys	Glu	Thr	Gln 480

Lys Ser Ile Tyr Tyr Ile Thr Gly Glu Ser Lys Glu Gln Val Ala Asn 485 490 495

Ser Ala Phe Val Glu Arg Val Arg Lys Arg Gly Phe Glu Val Val Tyr 500 505 510

Met Thr Glu Pro Ile Asp Glu Tyr Cys Val Gln Gln Leu Lys Glu Phe
515 520 525

Asp Gly Lys Ser Leu Val Ser Val Thr Lys Glu Gly Leu Glu Leu Pro 530 535 540

Glu Asp Glu Glu Glu Lys Lys Lys Met Glu Glu Ser Lys Ala Lys Phe 545 550 555 560

Glu Asn Leu Cys Lys Leu Met Lys Glu Ile Leu Asp Lys Lys Val Glu 565 570 575

Lys Val Thr Ile Ser Asn Arg Leu Val Ser Ser Pro Cys Cys Ile Val 580 585 590

Thr Ser Thr Tyr Gly Trp Thr Ala Asn Met Glu Arg Ile Met Lys Ala 595 600 605

Gln Ala Leu Arg Asp Asn Ser Thr Met Gly Tyr Met Met Ala Lys Lys 610 620

His Leu Glu Ile Asn Pro Asp His Pro Ile Val Glu Thr Leu Arg Gln 625 630 635 640

Lys Ala Glu Ala Asp Lys Asn Asp Lys Ala Val Lys Asp Leu Val Val 645 650 655

Leu Leu Phe Glu Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp 660 665 670

Pro Gln Thr His Ser Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu 675 680 685

Gly Ile Asp Glu Asp Glu Val Ala Ala Glu Glu Pro Asn Ala Ala Val 690 695 700

Pro Asp Glu Ile Pro Pro Leu Glu Gly Asp Glu Asp Ala Ser Arg Met 705 710 715 720

Glu Glu Val Asp

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<213> Homo sapiens

<400> 2

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- Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu Ile Ser Asn Ala Ser 35 40
- Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu Thr Asp Pro Ser Lys 50 55 60
- Leu Asp Ser Gly Lys Glu Leu Lys Ile Asp Ile Ile Pro Asn Pro Gln 65 70 75 80
- Glu Arg Thr Leu Thr Leu Val Asp Thr Gly Ile Gly Met Thr Lys Ala 85 90 95
- Asp Leu Ile Asn Asn Leu Gly Thr Ile Ala Lys Ser Gly Thr Lys Ala 100 105 110
- Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile Ser Met Ile Gly Gln 115 120 125
- Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val Ala Glu Lys Val Val 130 135 140
- Val Ile Thr Lys His Asn Asp Asp Glu Gln Tyr Ala Trp Glu Ser Ser 145 150 155 160
- Ala Gly Gly Ser Phe Thr Val Arg Ala Asp His Gly Glu Pro Ile Gly 165 170 175
- Arg Gly Thr Lys Val Ile Leu His Leu Lys Glu Asp Gln Thr Glu Tyr 180 185 190
- Leu Glu Glu Arg Arg Val Lys Glu Val Val Lys Lys His Ser Gln Phe 195 200 205
- Ile Gly Tyr Pro Ile Thr Leu Tyr Leu Glu Lys Glu Arg Glu Lys Glu 210 215 220
- Ile Ser Asp Asp Glu Ala Glu Glu Glu Lys Gly Glu Lys Glu Glu Glu 225 230 235 240
- Asp Lys Asp Asp Glu Glu Lys Pro Lys Ile Glu Asp Val Gly Ser Asp 245 250 255
- Glu Glu Asp Asp Ser Gly Lys Asp Lys Lys Lys Lys Thr Lys Lys Ile 260 265 270
- Lys Glu Lys Tyr Ile Asp Gln Glu Glu Leu Asn Lys Thr Lys Pro Ile 275 280 285
- Trp Thr Arg Asn Pro Asp Asp Ile Thr Gln Glu Glu Tyr Gly Glu Phe 290 295 300
- Tyr Lys Ser Leu Thr Asn Asp Trp Glu Asp His Leu Ala Val Lys His 305 310 315 320

Pne	ser	Val	Glu	325	GIn	Leu	Glu	Phe	Arg 330	Ala	Leu	Leu	Phe	11e 335	Pro
Arg	Arg	Ala	Pro 340	Phe	Asp	Leu	Phe	Glu 345	Asn	Lys	Lys	Lys	Lys 350	Asn	Asn
Ile	Lys	Leu 355	Tyr	Val	Arg	Arg	Val 360	Phe	Ile	Met	Asp	Ser 365	Сув	Asp	Glu
Leu	11e 370	Pro	Glu	Tyr	Leu	Asn 375	Phe	Ile	Arg	Gly	Val 380	Val	Asp	Ser	Ġlu
Asp 385	Leu	Pro	Leu	Asn	Ile 390	Ser	Arg	Glu	Met	Leu 395	Gln	Gln	Ser	Lys	Ile 400
Leu	Lys	Val	Ile	Arg 405	Lys	Asn	Ile	Val	Lys 410	Lys	Cys	Leu	Glu	Leu 415	Phe
			420					425					430	Glu	
		435					440					445		Asn	
	450					455					460			Gly	
465					470					475				Thr	480
				485					490					Ala 495	
			500					505					510	Val	
		515					520					525		Glu	
	530					535					540			Leu	
545					550					555				Lys	560
				565					570					Val 575	
			580					585					590	Ile	
		595					600					605	•	Lys	
Gln	Ala 610	Leu	Arg	Asp	Asn	Ser 615	Thr	Met	Gly	Tyr	Met 620	Met	Ala	Lys	Lys

His Leu Glu Ile Asn Pro Asp His Pro Ile Val Glu Thr Leu Arg Gln 625 630 635 640

Lys Ala Glu Ala Asp Lys Asn Asp Lys Ala Val Lys Asp Leu Val Val 645 650 655

Leu Leu Phe Glu Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp
660 665 670

Pro Gln Thr His Ser Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu 675 680 685

Gly Ile Asp Glu Asp Glu Val Ala Ala Glu Glu Pro Asn Ala Ala Val 690 695 700

Pro Asp Glu Ile Pro Pro Leu Glu Gly Asp Glu Asp Ala Ser Arg Met 705 710 715 720

Glu Glu Val Asp

<210> 3

<211> 732

<212> PRT

<213> Homo sapiens

<400> 3

Met Pro Glu Glu Thr Gln Thr Gln Asp Gln Pro Met Glu Glu Glu Glu 1 5 10 15

Val Glu Thr Phe Ala Phe Gln Ala Glu Ile Ala Gln Leu Met Ser Leu 20 25 30

Ile Ile Asn Thr Phe Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu 35 40 45

Ile Ser Asn Ser Ser Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu 50 55 60

Thr Asp Pro Ser Lys Leu Asp Ser Gly Lys Glu Leu His Ile Asn Leu 65 70 75 80

Ile Pro Asn Lys Gln Asp Arg Thr Leu Thr Ile Val Asp Thr Gly Ile 85 90 95

Gly Met Thr Lys Ala Asp Leu Ile Asn Asn Leu Gly Thr Ile Ala Lys
100 105 110

Ser Gly Thr Lys Ala Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile 115 120 125

Ser Met Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val 130 135 140

Ala Glu Lys Val Thr Val Ile Thr Lys His Asn Asp Asp Glu Gln Tyr 145 150 155 . 160

Ala	Trp	Glu	Ser	Ser 165	Ala	Gly	Gly	Ser	Phe 170	Thr	Val	Arg	Thr	Asp 175	Thr
Gly	Glu	Pro	Met 180	Gly	Arg	Gly	Thr	Lys 185	Val	Ile	Leu	His	Leu 190	Lys	Glu
Asp	Gln	Thr 195	Glu	Tyr	Leu	Glu	Glu 200	Arg	Arg	Ile	Lys	Glu 205	Ile	Val	Lys
Lys	His 210	Ser	Gln	Phe	Ile	Gly 215	Tyr	Pro	Ile	Thr	Leu 220	Phe	Val	Glu	Lys
Glu 225	Arg	Asp	Lys	Glu	Val 230	Ser	Asp	Asp	Glu	Ala 235	Glu	Glu	Lys	Glu	Asp 240
Lys	Glu	Glu	Glu	Lys 245	Glu	Lys	Glu	Glu	Lys 250	Glu	Ser	Glu	Asp	Lys 255	Pro
Glu	Ile	Glu	Asp 260	Val	Gly	Ser	Asp	Glu 265	Glu	Glu	Glu	Lys	Lys 270	Asp	Gly
Asp	Lys	Lys 275	Lys	Lys	Lys	Lys	Ile 280	Lys	Glu	Lys	Tyr	Ile 285	Asp	Gln	Glu
	290					295					300			Asp	
305					310					315				Asp	320
				325					330					Leu 335	
			340					345					350	Leu	
		355					360					365		Arg	
	370					375					380			Asn	
385					390					395				Ser	400
				405					410					Asn 415	
Val	Lys	Lys	Cys 420	Leu	Glu	Leu	Phe	Thr 425	Glu	Leu	Ala	Glu	Asp 430	Lys	Glu
Asn	Tyr	Lys 435	Lys	Phe	Tyr	Glu	Gln 440	Phe	Ser	Lys	Asn	Ile 445	Lys	Leu	Gly
Ile	His 450	Glu	Asp	Ser	Gln	Asn 455	Arg	Lys	Lys	Leu	Ser 460		Leu	Leu	Arg

Tyr 465	Tyr	Thr	Ser	Ala	Ser 470	Gly	Asp	Glu	Met	Val 475	Ser	Leu	Lys	Asp	Tyr 480
Cys	Thr	Arg	Met	Lys 485	Glu	Asn	Gln	Lys	His 490	Ile	Tyr	Tyr	Ile	Thr 495	Gly
Glu	Thr	Lys	Asp 500	Gln	Val	Ala	Asn	Ser 505	Ala	Phe	Val	Glu	Arg 510	Leu	Arg
Lys	His	Gly 515	Leu	Glu	Val	Ile	Tyr 520	Met	Ile	Glu	Pro	Ile 525	Asp	Glu	Tyr
Cys	Val 530	Gln	Gln	Leu	Lys	Glu 535	Phe	Glu	Gly	Lys	Thr 540	Leu	Val	Ser	Val
Thr 545	Lys	Glu	Gly	Leu	Glu 550	Leu	Pro	Glu	Asp	Glu 555	Glu	Glu	Lys	Lys	Lys 560
Gln	Glu	Glu	Lys	Lys 565	Thr	Lys	Phe	Glu	Asn 570	Leu	Cys	Lys	Ile	Met 575	Lys
Asp	Ile	Leu	Glu 580	Lys	Lys	Val	Glu	Lys 585	Val	Val	Val	Ser	Asn 590	Arg	Leu
Val	Thr	Ser 595	Pro	Cys	Cys	Ile	Val 600	Thr	Ser	Thr	Tyr	Gly 605	Trp	Thr	Ala
Asn	Met 610	Glu	Arg	Ile	Met	Lys 615	Ala	Gln	Ala	Leu	Arg 620	Asp	Asn	Ser	Thr
Met 625	Gly	Tyr	Met	Ala	Ala 630	Lys	Lys	His	Leu	Glu 635	Ile	Asn	Pro	Asp	His 640
Ser	Ile	Ile	Glu	Thr 645	Leu	Arg	Gln	Lys	Ala 650	Glu	Ala	Asp	Lys	Asn 655	Asp
Lys	Ser	Val	Lys 660	Asp	Leu	Val	Ile	Leu 665	Leu	Tyr	Glu	Thr	Ala 670	Leu	Leu
Ser	Ser	Gly 675	Phe	Ser	Leu	Glu	Asp 680	Pro	Gln	Thr	His	Ala 685	Asn	Arg	Ile
Tyr	Arg 690	Met	Ile	Lys	Leu	Gly 695	Leu	Gly	Ile	Asp	Glu 700	Asp	Asp	Pro	Thr
Ala 705	Asp	Asp	Thr	Ser	Ala 710	Ala	Val	Thr	Glu	Glu 715	Met	Pro	Pro	Leu	Glu 720
Gly	Asp	Asp	Asp	Thr 725	Ser	Arg	Met	Glu	Glu 730	Val	Asp				

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<400> 4

Met Pro Glu Glu Val His His Gly Glu Glu Glu Val Glu Thr Phe Ala

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Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu Ile Ser Asn Ala Ser 35 40 45

Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu Thr Asp Pro Ser Lys 50 60

Leu Asp Ser Gly Lys Glu Leu Lys Ile Asp Ile Ile Pro Asn Pro Gln 65 70 75 80

Glu Arg Thr Leu Thr Leu Val Asp Thr Gly Ile Gly Met Thr Lys Ala 85 90 95

Asp Leu Ile Asn Asn Leu Gly Thr Ile Ala Lys Ser Gly Thr Lys Ala 100 105 110

Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile Ser Met Ile Gly Gln 115 120 125

Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val Ala Glu Lys Val Val 130 135 140

Val Ile Thr Lys His Asn Asp Asp Glu Gln Tyr Ala Trp Glu Ser Ser 145 150 155 160

Ala Gly Gly Ser Phe Thr Val Arg Ala Asp His Gly Glu Pro Ile Gly 165 170 175

Arg Gly Thr Lys Val Ile Leu His Leu Lys Glu Asp Gln Thr Glu Tyr 180 185 190

Leu Glu Glu Arg Arg Val Lys Glu Val Lys Lys His Ser Gln Phe 195 200 205

Ile Gly Tyr Pro Ile Thr Leu Tyr Leu Glu Lys Glu Arg Glu Lys Glu 210 215 220

Ile Ser Asp Asp Glu Ala Glu Glu Glu Lys Gly Glu Lys Glu Glu Glu 225 230 235 240

Asp Lys Glu Asp Glu Glu Lys Pro Lys Ile Glu Asp Val Gly Ser Asp 245 250 255

Glu Glu Asp Asp Ser Gly Lys Asp Lys Lys Lys Lys Thr Lys Lys Ile 260 265 270

Lys Glu Lys Tyr Ile Asp Gln Glu Glu Leu Asn Lys Thr Lys Pro Ile 275 280 285

Trp Thr Arg Asn Pro Asp Asp Ile Thr Gln Glu Glu Tyr Gly Glu Phe 290 295 300

305	rys	ser	Leu	Thr	310	Asp	Trp	GIu	Asp	His 315	Leu	Ala	Val	Lys	His 320
Phe	Ser	Val	Glu	Gly 325	Gln	Leu	Glu	Phe	Arg 330	Ala	Leu	Leu	Phe	Ile 335	Pro
Arg	Arg	Ala	Pro 340	Phe	Asp	Leu	Phe	Glu 345	Asn	Lys	Lys	Lys	Lys 350	Asn	Asn
Ile	Lys	Leu 355	Tyr	Val	Arg	Arg	Val 360	Phe	Ile	Met	Asp	Ser 365	Суѕ	Asp	Glu
Leu	Ile 370	Pro	Glu	Tyr	Leu	Asn 375	Phe	Ile	Arg	Gly	Val 380	Val	Asp	Ser	Glu
Asp 385	Leu	Pro	Leu	Asn	Ile 390	Ser	Arg	Glu	Met	Leu 395	Gln	Gln	Ser	Lys	Ile 400
Leu	Lys	Val	Ile	Arg 405	Lys	Asn	Ile	Val	Lys 410	Lys	Cys	Leu	Glu	Leu 415	Phe
Ser	Glu	Leu	Ala 420	Glu	Asp	Lys	Glu	Asn 425	Tyr	Lys	Lys	Phe	Tyr 430	Glu	Ala
		435					440					445		Asn	
	450					455					460			Gly	
Glu 465	Met	Thr	Ser	Leu	Ser 470	Glu	Tyr	Val	Ser	Arg 475	Met	Lys	Glu	Thr	Gln 480
Lys	Ser	Ile	Tyr	Tyr 485	Ile	Thr	Gly	Glu	Ser 490	Lys	Glu	Gln	Val	Ala 495	Asn
			500					505					510	Val	
Met	Thr	Glu 515	Pro	Ile	Asp	Glu	Tyr 520	Cys	Val	Gln	Gln	Leu 525	Lys	Glu	Phe
	530					535					540			Leu	
Glu 545	Asp	Glu	Glu	Glu	Lys 550	Lys	Lys	Met	Glu	Glu 555	Ser	Lys	Ala	Lys	Phe 560
Glu	Asn	Leu	Cys	Lys 565	Leu	Met	Lys	Glu	Ile 570	Leu	Asp	Lys	Lys	Val 575	Glu
			580					585					590	Ile	
Thr	Ser	Thr 595	Tyr	Gly	Trp	Thr	Ala 600	Asn	Met	Glu	Arg	Ile 605	Met	Lys	Ala

Gln Ala Leu Arg Asp Asn Ser Thr Met Gly Tyr Met Met Ala Lys Lys 610 620

His Leu Glu Ile Asn Pro Asp His Pro Ile Val Glu Thr Leu Arg Gln 625 630 635 640

Lys Ala Glu Ala Asp Lys Asn Asp Lys Ala Val Lys Asp Leu Val Val
655

Leu Leu Phe Glu Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp 660 670

Pro Gln Thr His Ser Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu 675 680 685

Gly Ile Asp Glu Asp Glu Val Thr Ala Glu Glu Pro Ser Ala Ala Val 690 695 700

Pro Asp Glu Ile Pro Pro Leu Glu Gly Asp Glu Asp Ala Ser Arg Met 705 710 715 720

Glu Glu Val Asp

<210> 5

<211> 724

<212> PRT

<213> Homo sapiens

<400> 5

Met Pro Glu Glu Val His His Gly Glu Glu Glu Val Glu Thr Phe Ala
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Phe Gln Ala Glu Ile Ala Gln Leu Met Ser Leu Ile Ile Asn Thr Phe 20 25 30

Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu Ile Ser Asn Ala Ser 35 40 45

Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu Thr Asp Pro Ser Lys 50 60

Leu Asp Ser Gly Lys Glu Leu Lys Ile Asp Ile Ile Pro Asn Pro Gln
65 70 75 80

Glu Arg Thr Leu Thr Leu Val Asp Thr Gly Ile Gly Met Thr Lys Ala 85 90 95

Asp Leu Ile Asn Asn Leu Gly Thr Ile Ala Lys Ser Gly Thr Lys Ala 100 105 110

Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile Ser Met Ile Gly Gln 115 120 125

Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val Ala Glu Lys Val Val 130 135 140

145	iie	Thr	Lys	HIS	150	Asp	Asp	Glu	Gin	Tyr 155	Ala	Trp	Glu	Ser	Ser 160
Ala	Gly	Gly	Ser	Phe 165	Thr	Val	Arg	Ala	Asp 170	His	Gly	Glu	Pro	Ile 175	Gly
Arg	Gly	Thr	Lys 180	Val	Ile	Leu	His	Leu 185	Lys	Glu	Asp	Gln	Thr 190	Glu	Tyr
Leu	Glu	Glu 195	Arg	Arg	Val	Lys	Glu 200	Val	Val	Lys	Lys	His 205	Ser	Gln	Phe
Ile	Gly 210	Tyr	Pro	Ile	Thr	Leu 215	Tyr	Leu	Glu	Lys	Glu 220	Arg	Glu	Lys	Glu
Ile 225	Ser	Asp	Asp	Glu	Ala 230	Glu	Glu	Glu	Lys	Gly 235	Glu	rys	Glu	Glu	Glu 240
Asp	Lys	Asp	Asp	Glu 245	Glu	Lys	Pro	Lys	Ile 250	Glu	Asp	Val	Gly	Ser 255	Asp
Glu	Glu	Asp	Asp 260	Ser	Gly	Lys	Asp	Lys 265	Lys	Lys	Lys	Thr	Lys 270	Lys	Ile
Lys	Glu	Lys 275	Tyr	Ile	Asp	Gln	Glu 280	Glu	Leu	Asn	Lys	Thr 285	Lys	Pro	Ile
Trp	Thr 290	Arg	Asn	Pro	Asp	Asp 295	Ile	Thr	Gln	Glu	Glu 300	Tyr	Gly	Glu	Phe
Tyr 305	Lys	Ser	Leu	Thr	Asn 310	Asp	Trp	Glu	Aśp	His 315	Leu	Ala	Val	Lys	His 320
Phe	Ser	Val	Glu	Gly 325	Gln	Leu	Glu	Phe	Arg 330	Ala	Leu	Leu	Phe	11e 335	Pro
Arg	Arg	Ala	Pro 340	Phe	Asp	Leu	Phe	Glu 345	Asn	Lys	Lys	Lys	Lys 350	Asn	Asn
Ile	Lys	Leu 355	Tyr	Val	Arg	Arg	Val 360	Phe	Ile	Met	Asp	Ser 365	Cys	Asp	Glu
Leu	11e 370	Pro	Glu	Tyr	Leu	Asn 375	Phe	Ile	Arg	Gly	Val 380	Val	Asp	Ser	Glu
Asp 385	Leu	Pro	Leu	Asn	Ile 390	Ser	Arg	Glu	Met	Leu 395	Gln	Gln	Ser	Lys	Ile 400
Leu	Lys	Val	Ile	Arg 405	Lys	Asn	Ile	Val	Lys 410	Lys	Cys	Leu	Glu	Leu 415	Phe
Ser	Glu	Leu	Ala 420	Glu	Asp	Lys	Glu	Asn 425	Tyr	Lys	Lys	Phe	Tyr 430	Glu	Ala
Phe	Ser	Lys 435	Asn	Leu	Lys	Leu	Gly 440	Ile	His	Glu	Asp	Ser 445	Thr	Asn	Arg

Arg	Arg 450	Leu	Ser	Glu	Leu	Leu 455	Arg	Tyr	His	Thr	Ser 460	Gln	Ser	Gly	Asp
Glu 465	Met	Thr	Ser	Leu	Ser 470	Glu	Tyr	Val	Ser	Arg 475	Met	Lys	Glu	Thr	Gln 480
Lys	Ser	Ile	Tyr	Tyr 485	Ile	Thr	Gly	Glu	Ser 490	Lys	Glu	Gln	Val	Ala 495	Asn
Ser	Ala	Phe	Val 500	Glu	Arg	Val	Arg	Lys 505	Arg	Gly	Phe	Glu	Val 510	Val	Tyr
Met	Thr	Glu 515	Pro	Ile	Asp	Glu	Tyr 520	Cys	Val	Gln	Gln	Leu 525	Lys	Glu	Phe
Asp	Gly 530	Lys	Ser	Leu	Val	Ser 535	Val	Thr	Lys	Glu	Gly 540	Leu	Glu	Leu	Pro
Glu 545	Asp	Glu	Glu	Glu	Lys 550	Lys	Lys	Met	Glu	Glu 555	Ser	Lys	Ala	Lys	Phe 560
Glu	Asn	Leu	Cys	Lys 565	Leu	Met	Lys	Glu	Ile 570	Leu	Asp	Lys	Lys	Val 575	Glu
Lys	Val	Thr	Ile 580	Ser	Asn	Arg	Leu	Val 585	Ser	Ser	Pro	Cys	Cys 590	Ile	Val
		595					600					605		Lys	
Gln	Ala 610	Leu	Arg	Asp	Asn	Ser 615	Thr	Met	Glγ	Tyr	Met 620	Met	Ala	Lys	Lys
His 625	Leu	Glu	Ile	Asn	Pro 630	Asp	His	Pro	Ile	Val 635	Glu	Thr	Leu	Arg	Gln 640
Lys	Ala	Glu	Ala	Asp 645	Lys	Asn	Asp	Lys	Ala 650	Val	Lys	Asp	Leu	Val 655	Val
Leu	Leu	Phe	Glu 660	Thr	Ala	Leu	Leu	Ser 665	Ser	Gly	Phe	Ser	Leu 670	Glu	Asp
Pro	Gln	Thr 675	His	Ser	Asn	Arg	Ile 680	Tyr	Arg	Met	Ile	Lys 685	Leu	Gly	Leu
Gly	Ile 690	Asp	Glu	Asp	Glu	Val 695	Ala	Ala	Glu	Glu	Pro 700	Asn	Ala	Ala	Val
Pro 705	Asp	Glu	Ile	Pro	Pro 710	Leu	Glu	Gly	Asp	Glu 715	Asp	Ala	Ser	Arg	Met 720
Glu	Glu	Val	Asp												

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Ile Ile Asn Thr Phe Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu 35 40 45

Ile Ser Asn Ser Ser Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu 50 55 60

Thr Asp Pro Ser Lys Leu Asp Ser Gly Lys Glu Leu His Ile Asn Leu 65 70 75 80

Ile Pro Ser Lys Gln Asp Arg Thr Leu Thr Ile Val Asp Thr Gly Ile
85 90 95

Gly Met Thr Lys Ala Asp Leu Ile Asn Asn Leu Gly Thr Ile Ala Lys
100 105 110

Ser Gly Thr Lys Ala Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile 115 120 125

Ser Met Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val 130 135 140

Ala Glu Lys Val Thr Val Ile Thr Lys His Asn Asp Asp Glu Gln Tyr 145 150 155 160

Ala Trp Glu Ser Ser Ala Gly Gly Ser Phe Thr Val Arg Thr Asp Thr 165 170 175

Gly Glu Pro Met Gly Arg Gly Thr Lys Val Ile Leu His Leu Lys Glu 180 185 190

Asp Gln Thr Glu Tyr Leu Glu Glu Arg Arg Ile Lys Glu Ile Val Lys 195 200 205

Lys His Ser Gln Phe Ile Gly Tyr Pro Ile Thr Leu Phe Val Glu Lys 210 215 220

Glu Arg Asp Lys Glu Val Ser Asp Asp Glu Ala Glu Glu Lys Glu Glu 225 230 235 240

Lys Glu Glu Glu Lys Glu Lys Glu Ser Asp Asp Lys Pro 245 250 255

Glu Ile Glu Asp Val Gly Ser Asp Glu Glu Glu Glu Glu Lys Lys Asp 260 265 270

GIY	Asp	Lys 275	Lys	Lys	Lys	Lys	Lys 280	Ile	Lys	Glu	Lys	Tyr 285	Ile	Asp	Gln
Glu	Glu 290	Leu	Asn	Lys	Thr	Lys 295	Pro	Ile	Trp	Thr	Arg 300	Asn	Pro	Asp	Asp
Ile 305	Thr	Asn	Glu	Glu	Tyr 310	Gly	Glu	Phe	Tyr	Lys 315	Ser	Leu	Thr	Asn	Asp 320
Trp	Glu	Glu	His	Leu 325	Ala	Val	Lys	His	Phe 330	Ser	Val	Glu	Gly	Gln 335	Leu
Glu	Phe	Arg	Ala 340	Leu	Leu	Phe	Val	Pro 345	Arg	Arg	Ala	Pro	Phe 350	Asp	Leu
Phe	Glu	Asn 355	Arg	Lys	Lys	Lys	Asn 360	Asn	Ile	Lys	Leu	Tyr 365	Val	Arg	Arg
Val	Phe 370	Ile	Met	Asp	Asn	Cys 375	Glu	Glu	Leu	Ile	Pro 380	Glu	Tyr	Leu	Asn
Phe 385	Ile	Arg	Gly	Val	Val 390	Asp	Ser	Glu	Asp	Leu 395	Pro	Leu	Asn	Ile	Ser 400
Arg	Glu	Met	Leu	Gln 405	Gln	Ser	Lys	Ile	Leu 410	Lys	Val	Ile	Arg	Lys 415	Asn
Leu	Val	Lys	Lys 420	Cys	Leu	Glu	Leu	Phe 425	Thr	Glu	Leu	Ala	Glu 430	Asp	Lys
Glu	Asn	Tyr 435	Lys	Lys	Phe	Tyr	Glu 440	Gln	Phe	Ser	Lys	Asn 445	Ile	Lys	Leu
Gly	Ile 450	His	Glu	Asp	Ser	Gln 455	Asn	Arg	Lys	Lys	Leu 460	Ser	Glu	Leu	Leu
Arg 465	Tyr	Tyr	Thr	Ser	Ala 470	Ser	Gly	Asp	Glu	Met 475	Val	Ser	Leu	Lys	Asp 480
Tyr	Cys	Thr	Arg	Met 485	Lys	Glu	Asn	Gln	Lys 490	His	Ile	Tyr	Phe	Ile 495	Thr
Gly	Glu	Thr	Lys 500	Asp	Gln	Val	Ala	Asn 505	Ser	Ala	Phe	Val	Glu 510	Arg	Leu
Arg	Lys	His 515	Gly	Leu	Glu	Val	Ile 520	Tyr	Met	Ile	Glu	Pro 525	Ile	Asp	Glu
Tyr	Cys 530	Val	Gln	Gln	Leu	Lys 535	Glu	Phe	Glu	Gly	Lys 540	Thr	Leu	Val	Ser
Val 545	Thr	Lys	Glu	Gly	Leu 550	Glu	Leu	Pro	Glu	Asp 555	Glu	Glu	Glu	Lys	Lys 560
Lys	Gln	Glu	Glu	Lys 565	Lys	Thr	Lys	Phe	Glu 570	Asn	Leu	Сув	Lys	Ile 575	Met

Lys Asp Ile Leu Glu Lys Lys Val Glu Lys Val Val Val Ser Asn Arg 580 585 590

Leu Val Thr Ser Pro Cys Cys Ile Val Thr Ser Thr Tyr Gly Trp Thr 595 600 605

Ala Asn Met Glu Arg Ile Met Lys Ala Gln Ala Leu Arg Asp Asn Ser 610 620

Thr Met Gly Tyr Met Ala Ala Lys Lys His Leu Glu Ile Asn Pro Asp 625 630 635 640

His Ser Ile Ile Glu Thr Leu Arg Gln Lys Ala Glu Ala Asp Lys Asn 645 650 655

Asp Lys Ser Val Lys Asp Leu Val Ile Leu Leu Tyr Glu Thr Ala Leu 660 665 670

Leu Ser Ser Gly Phe Ser Leu Glu Asp Pro Gln Thr His Ala Asn Arg 675 680 685

Ile Tyr Arg Met Ile Lys Leu Gly Leu Gly Ile Asp Glu Asp Asp Pro 690 695 700

Thr Val Asp Asp Thr Ser Ala Ala Val Thr Glu Glu Met Pro Pro Leu 705 710 715 720

Glu Gly Asp Asp Asp Thr Ser Arg Met Glu Glu Val Asp
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Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala 35 40 40 45

Asp Ala Val Ala Val Thr Met Gly Pro Lys Gly Arg Thr Val Ile Ile 50 60

Glu Gln Ser Trp Gly Ser Pro Lys Val Thr Lys Asp Gly Val Thr Val 65 70 75 80

Ala Lys Ser Ile Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly Ala Lys 85 90 95

Leu Val Gln Asp Val Ala Asn Asn Thr Asn Glu Glu Ala Gly Asp Gly 100 105 110

Thr	Thr	Thr 115	Ala	Thr	Val	Leu	Ala 120	Arg	Ser	Ile	Ala	Lys 125	Glu	Gly	Phe
Glu	Lys 130	Ile	Ser	Lys	Gly	Ala 135	Asn	Pro	Val	Glu	Ile 140	Arg	Arg	Gly	Val
Met 145	Leu	Ala	Val	Asp	Ala 150	Val	Ile	Ala	Glu	Leu 155	Lys	Lys	Gln	Ser	Lys 160
Pro	Val	Thr	Thr	Pro 165	Glu	Glu	Ile	Ala	Gln 170	Val	Ala	Thr	Ile	Ser 175	Ala
Asn	Gly	Asp	Lys 180	Glu	Ile	Gly	Asn	Ile 185	Ile	Ser	Asp	Ala	Met 190	Lys	Lys
Val	Gly	Arg 195	Lys	Gly	Val	Ile	Thr 200	Val	Lys	Asp	Gly	Lys 205	Thr	Leu	Asn
Asp	Glu 210	Leu	Glu	Ile	Ile	Glu 215	Gly	Met	Lys	Phe	Asp 220	Arg	Gly	Tyr	Ile
Ser 225	Pro	Tyr	Phe	Ile	Asn 230	Thr	Ser	Lys	Gly	Gln 235	Lys	Cys	Glu	Phe	Gln 240
Asp	Ala	Tyr	Val	Leu 245	Leu	Ser	Glu	Lys	Lys 250	Ile	Ser	Ser	Ile	Gln 255	Ser
Ile	Val	Pro	Ala 260	Leu	Glu	Ile	Ala	Asn 265	Ala	His	Arg	Lys	Pro 270	Leu	Val
Ile	Ile	Ala 275	Glu	Asp	Val	Asp	Gly 280	Glu	Ala	Leu	Ser	Thr 285	Leu	Val	Leu
Asn	Arg 290	Leu	Lys	Val	Gly	Leu 295	Gln	Val	Val	Ala	Val 300	Lys	Ala	Pro	Gly
Phe 305	Gly	Asp	Asn	Arg	Lys 310	Asn	Gln	Leu	Lys	Asp 315	Met	Ala	Ile	Ala	Thr 320
Gly	Gly	Ala	Val	Phe 325	Gly	Glu	Glu	Gly	Leu 330	Thr	Leu	Asn	Leu	Glu 335	Asp
Val	Gln	Pro	His 340	Asp	Leu	Gly	Lys	Val 345	Gly	Glu	Val	Ile	Val 350	Thr	Lys
Asp	qsA	Ala 355	Met	Leu	Leu	Lys	Gly 360	Lys	Gly	Asp	Lys	Ala 365	Gln	Ile	Glu
Lys	Arg 370	Ile	Gln	Glu	Ile	11e 375	Glu	Gln	Leu	Asp	Val 380	Thr	Thr	Ser	Glu
Tyr 385	Glu	Lys	Glu	Lys	Leu 390	Asn	Glu	Arg	Leu	Ala 395	Lys	Leu	Ser	qaA	Gly 400
Val	Ala	Val	Leu	Lys 405	Val	Gly	Gly	Thr	Ser 410		_ Val	Glu	Val	Asn 415	Glu

Lys Lys Asp Arg Val Thr Asp Ala Leu Asn Ala Thr Arg Ala Ala Val 420 425 430

Glu Glu Gly Ile Val Leu Gly Gly Gly Cys Ala Leu Leu Arg Cys Ile 435 440 445

Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly 450. 455 460

Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala 465 470 475 480

Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln 485 490 495

Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Asn 500 505 510

Met Val Glu Lys Gly Ile Ile Asp Pro Thr Lys Val Val Arg Thr Ala 515 520 525

Leu Leu Asp Ala Ala Gly Val Ala Ser Leu Leu Thr Thr Ala Glu Val 530 540

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Ala Phe Ala Lys Val Asp Thr Asp Gly Asn Gly Tyr Ile Ser Phe Asn 20 25 30

Glu Leu Asn Asp Leu Phe Lys Ala Ala Cys Leu Pro Leu Pro Gly Tyr 35 40

Arg Val Arg Glu Ile Thr Glu Asn Leu Met Ala Thr Gly Asp Leu Asp 50 60

Gln Asp Gly Arg Ile Ser Phe Asp Glu Phe Ile Lys Ile Phe His Gly
65 70 75

Leu Lys Ser Thr Asp Val Ala Lys Thr Phe Arg Lys Ala Ile Asn Lys 85 90

Lys Glu Gly Ile Cys Ala Ile Gly Gly Thr Ser Glu Gln Ser Ser Val 100 105 110

GIY	1111	115	nis	ser	TYP	ser	120	GIU	GIU	rys	Tyr	125	Pne	vaı	Asn
Trp	Ile 130	Asn	Lys	Ala	Leu	Glu 135	Asn	Asp	Pro	Asp	Cys 140	Arg	His	Val	Ile
Pro 145	Met	Asn	Pro	Asn	Thr 150	Asn	Asp	Leu	Phe	Asn 155	Ala	Val	Gly	Asp	Gly 160
Ile	Val	Leu	Cys	Lys 165	Met	Ile	Asn	Leu	Ser 170	Val	Pro	Asp	Thr	Ile 175	Asp
Glu	Arg	Thr	Ile 180	Asn	Lys	Lys	Lys	Leu 185	Thr	Pro	Phe	Thr	Ile 190	Gln	Glu
Asn	Leu	Asn 195	Leu	Ala	Leu	Asn	Ser 200	Ala	Ser	Ala	Ile	Gly 205	Cys	His	Val
Val	Asn 210	Ile	Gly	Ala	Glu	Asp 215	Leu	Lys	Glu	Gly	Lys 220	Pro	Tyr	Leu	Val
Leu 225	Gly	Leu	Leu	Trp	Gln 230	Val	Ile	Lys	Ile	Gly 235	Leu	Phe	Ala	Asp	Ile 240
Glu	Leu	Ser	Arg	Asn 245	Glu	Ala	Leu	Ile	Ala 250	Leu	Leu	Arg	Glu	Gly 255	Glu
Ser	Leu	Glu	Asp 260	Leu	Met	Lys	Leu	Ser 265	Pro	Glu	Glu	Leu	Leu 270	Leu	Arg
Trp	Ala	Asn 275	Tyr	His	Leu	Glu	Asn 280	Ala	Gly	Cys	Aşn	Lys 285	Ile	Gly	Asn
Phe	Ser 290	Thr	Asp	Ile	Lys	Asp 295	Ser	Lys	Ala	Tyr	Tyr 300	His	Leu	Leu	Glu
Gln 305	Val	Ala	Pro	Lys	Gly 310	Asp	Glu	Glu	Gly	Val 315	Pro	Ala	Val	Val	Ile 320
Asp	Met	Ser	Gly	Leu 325	Arg	Glu	Lys	Asp	Asp 330	Ile	Gln	Arg	Ala	Glu 335	Cys
Met	Leu	Gln	Gln 340	Ala	Glu	Arg	Leu	Gly 345	Cys	Arg	Gln	Phe	Val 350	Thr	Ala
Thr	Asp	Val 355	Val	Arg	Gly	Asn	Pro 360	Lys	Leu	Asn	Leu	Ala 365	Phe	Ile	Ala
Asn	Leu 370	Phe	Asn	Arg	Tyr	Pro 375	Ala	Leu	His	Lys	Pro 380	Glu	Asn	Gln	Asp
Ile 385	Asp	Trp	Gly	Ala	Leu 390	Glu	Gly	Glu	Thr	Arg 395	Glu	Glu	Arg	Thr	Phe 400
Arg	Asn	Trp	Met	Asn '405	Ser	Leu	Gly	Val	Asn 410	Pro	Arg	Val	Asn	His 415	Leu

Tyr Ser Asp Leu Ser Asp Ala Leu Val Ile Phe Gln Leu Tyr Glu Lys 425 Ile Lys Val Pro Val Asp Trp Asn Arg Val Asn Lys Pro Pro Tyr Pro Lys Leu Gly Gly Asn Met Lys Lys Leu Glu Asn Cys Asn Tyr Ala Val Glu Leu Gly Lys Asn Gln Ala Lys Phe Ser Leu Val Gly Ile Gly Gly 470 Gln Asp Leu Asn Glu Gly Asn Arg Thr Leu Thr Leu Ala Leu Ile Trp Gln Leu Met Arg Arg Tyr Thr Leu Asn Ile Leu Glu Glu Ile Gly Gly 505 Gly Gln Lys Val Asn Asp Asp Ile Ile Val Asn Trp Val Asn Glu Thr 520 Leu Arg Glu Ala Glu Lys Ser Ser Ser Ile Ser Ser Phe Lys Asp Pro Lys Ile Ser Thr Ser Leu Pro Val Leu Asp Leu Ile Asp Ala Ile Gln Pro Gly Ser Ile Asn Tyr Asp Leu Leu Lys Thr Glu Asn Leu Asn Asp 565 Asp Glu Lys Leu Asn Asn Ala Lys Tyr Ala Ile Ser Met Ala Arg Lys Ile Gly Ala Arg Val Tyr Ala Leu Pro Glu Asp Leu Val Glu Val Asn 600 Pro Lys Met Val Met Thr Val Phe Ala Cys Leu Met Gly Lys Gly Met 610 615 Lys Arg Val 625 <210> 9 <211> 8 <212> PRT <213> Equus caballus

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Ser Ala Phe Val Glu Arg Val
             20
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Pro Lys Asn
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Lys Asn Ala Val Glu Glu Tyr Val Tyr Glu Met Arg Asp
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Trp
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Lys Val Leu Thr Phe Tyr Arg Lys
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Lys Val Leu Ala Thr Ala Phe Asp Thr Thr Ile Gly Gly Arg Lys
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Trp
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000
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Lys Ile Lys Val Pro Val Asp Trp Asn Arg Val
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Arg Thr
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Leu Arg Glu
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Leu Asp Ser Gly Lys Glu Leu Lys Ile Asp Ile Ile Pro Asn Pro Gln
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Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile Ser Met Ile Gly Gln
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Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val Ala Glu Lys Val Val
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• ,

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				645					650					Val 655	
			660					665					670	Glu	
		675					680					685		Gly	
Gly	Ile 690	Xaa	Xaa	Xaa	Xaa	Xaa 695	Xaa	Xaa	Xaa	Xaa	Xaa 700	Xaa	Xaa	Xaa	Xaa
Xaa 705	Xaa	Xaa	Ile	Pro	Pro 710	Leu	Glu	Gly	Asp	Glu 715	Asp	Ala	Ser	Arg	Met 720
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Xaa	Xaa	Xaa	Xaa	Xa:			OD_R	re.												
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xaa	Xaa	хаа	хаа	Xat		_														
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Glu	Glu	His	Leu	Ala					_					10					15	
			325		Val	Glu	Thr	Phe	Δla	Dhe	Cln	- וג	C1	T1-	n 1 -	a 1	-		_	_
								20	ALG	FILE	GIII	ALG	GIU	116	Ala	GIN	Leu		Ser	Le
Phe	Arg	Δla	T.e.11	I.e.				20					25					30		
	**** 9	340	LCu	DC.	T10	т1.	7	mъ	73.	_	_	_	_	_						
		340			TIE	116	Asn	Inr	Pne	Tyr	Ser		Lys	Glu	Ile	Phe	Leu	Arg	Glu	Le
01.	7		.	• .			35					40					45			
GIU	Asn	Arg	газ	гАі		_	_													
	355				ше	Ser	Asn	Ser	Ser	Asp	Ala	Leu	Asp	Lys	Ile	Arg	Tyr	Glu	Ser	Lei
	_					50					55					60	-			
Phe	Ile	Met	Asp	Ası																
370					Thr	Asp	Pro	Ser	Lys	Leu	Asp	Ser	Glv	Lvs	Glu	Leu	Hie	Tla	λen	Lo
					65				_	70	•		2	-3-	75			-1-0	NO.	8
Ile	Arg	Gly	Val	Va.																0
	_	_		391	Ile	Pro	Ser	Lvs	Gln	Asn	Ara	Thr	T.011	Thr	٣1.	tto 1	2	m.	~	
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Glu	Met	Len	Gln	Gli					05					90					95	
			405		Glv	Mot	Thr	Tva	71-	7	T	-1	_	_	_					
			403		Gry	Mec	Thr	гуs	Ala	Asp	Leu	Пe		Asn	Leu	Gly	Thr	Ile	Ala	Ly:
17n 1	T	T	Crra	To				100					105					110		
Val	Lys		Cys	те	_			_												
		420			Ser	GIY	Thr	Lys	Ala	Phe	Met	Glu	Ala	Leu	Gln	Ala	Gly	Ala	Asp	Ile
_	_	_	_				115					120					125		_	
Asn	Tyr	гЛs	Lys	Ph:																
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Ile	His	Glu	Asp	Se:												-10				
450)				Ala	Glu	Lys	Val	Thr	Val	Tle	Thr	Lve	ніс	Acn	7.00	7	C1	01 -	m
					145		•			150			шуз	1115		Asp	Asp	GIU	GIN	
Tvr	Tyr	Thr	Ser	A1.						130					155					160
-1-	-1-		202	47	Δla	Trn	Glu	202	Co	7 J -	03.	~1	_							
				3,	AIG	тъ	Glu	ser		Ата	GIY	GIĀ	Ser		Thr	Val	Arg	Thr	Asp	Thi
C	mb	λ	Mak	T					165					170					175	
Cys	Thr	Arg		пу	63	~-	_													
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Glu	Thr		Asp	G1 ;																
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				•			195		_			200		3		_,_	205	***	" CAL	щy.
Lys	His	Cys	Leu	Gl [.]												-				
	515	-		:	Lys	His	Ser	Gln	Phe	Ile	Glv	Tvr	Pro	Tle	Th~	T 0	Db.	17- 1	a 3	.
					•	210					1	- 1 -		-1-G	TIIL	neu	Fue	val	GIU	гАг

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